

A port elevator must be faster and more flexible than an inland terminal, because there are so many operations going on at once. This maze of spouting is above the storage tanks in the Public Grain Elevator, New Orleans.

GRAIN

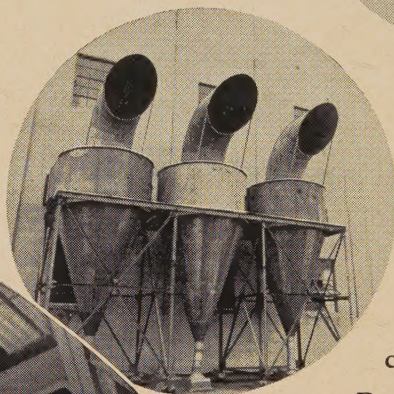
MAY, 1950

THE MAGAZINE OF PLANT MANAGEMENT AND OPERATION

Another **KIRK^{AND} BLUM** *dust control installation*

Ralston Purina Company grain elevator dust control installation, Bloomington, Ill. All the dust points are exhausted by the Kirk and Blum system.

Large illustration, bottom, shows the point where the grain is unloaded from railroad cars, the grain falling through the grating as shown to conveyor system below. This takes care of the dust created when the grain is dumped into this pit. Top photo shows the three cyclones used in conjunction with the general dust control installation in the plant.



Kirk & Blum is supplying Dust Control Systems to an ever-growing number of elevators and flour, corn, feed and cereal mills.

Properly designed hoods, streamlined junction fittings with low frictional loss in piping, and dust collectors, designed specifically for the separation of grain dust . . . installed with the skill gained only in long experience . . . are the answer to your problems.

When you select a Kirk & Blum Dust Control System, you have one undivided responsibility—one complete contract for an installed system, ready to operate. Kirk and Blum engineering specialists survey your needs, design the system; fabricate it (equipment excepted) to fit your needs; and then supervise the installation by mechanics with years of specialized experience.

IF YOU'RE PLANNING A NEW OR REPLACEMENT SYSTEM, "CALL ON K & B FOR ALL THREE" . . .

DESIGN

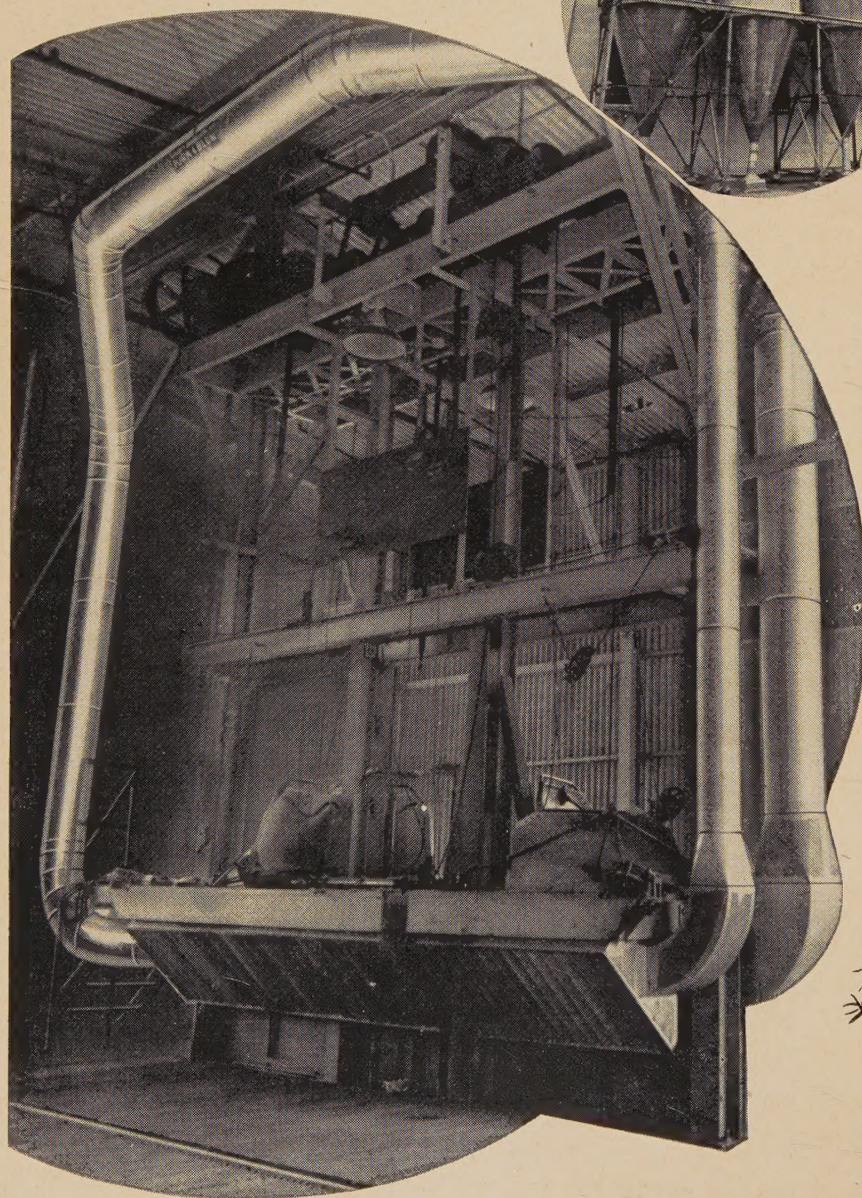
FABRICATION

INSTALLATION



FOR CLEAN AIR . . . THE **INVISIBLE** TOOL

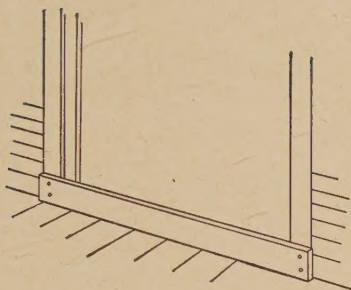
KIRK^{AND} BLUM
DUST CONTROL SYSTEMS



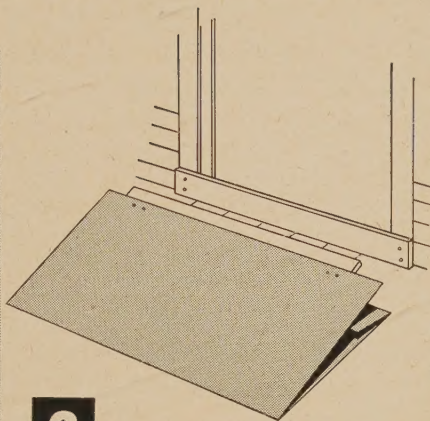
FACTS...NOT FICTION!

ONE MAN

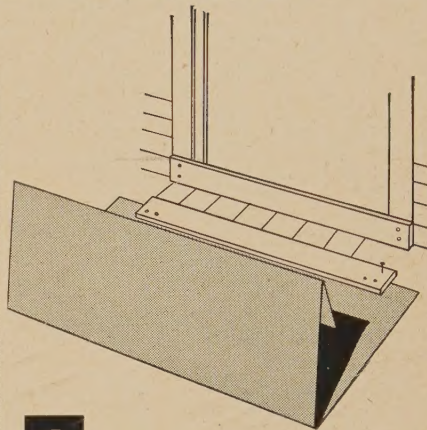
applies SIGNODE GRAIN DOORS!



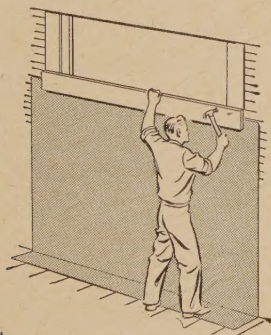
1 Place a 1" x 6" undressed board (length to suit) across the bottom of each doorway and nail to each cardoor post with two 8d, or larger, common nails.



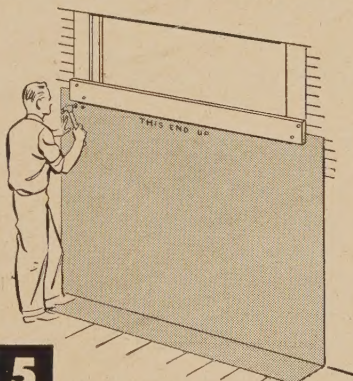
2 Lay top protecting board on car floor beneath top strap of Signode Grain Door and drive two nails through holes of top strap at each end, allowing one hole space between each nail.



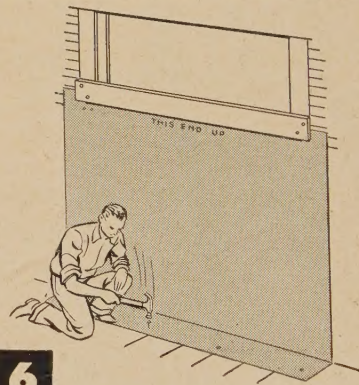
3 Turn Signode Grain Door over (with board attached) and partially drive one 10d or 12d nail into right end of top protecting board ... then,



4 Center Signode Grain Door across car doorway. Hold floor flap firmly with foot, and stretch grain door upward until taut. Finish driving nail into right cardoor post. Properly position the Signode Grain Door and drive a nail into left cardoor post.



5 Complete grain door application by driving two double-head nails, one hole apart, through ends of each strap into each cardoor post.



6 Nail floor flap to car floor with not less than 4 nails, 20" apart.

APPROVED BY ASSOCIATION OF AMERICAN RAILROADS — PAMPHLET NO. 36

EASY TO UNLOAD



To unload car, sever the Signode Grain Door at either cardoor post, beginning at the top.



For further information write:

SIGNODE STEEL STRAPPING COMPANY

Railroad Sales Division

2652 N. WESTERN AVENUE

CHICAGO 47, ILLINOIS

EASY TO REMOVE



Remove used Signode Grain Doors by pulling the double-head nails from each cardoor post.

CASH IN NOW on the ACCURACY of a SEEDBURO

Automatic Sampler!



You can help yourself to greater profits immediately by installing a SEEDBURO AUTOMATIC SAMPLER. It's designed to obtain a CORRECT AND TRUE SAMPLE of grain from cars or cargoes—loading in or out.

One elevator reports: "No matter how unevenly cars are loaded, the Seedburo Automatic Sampler gets a PERFECT AVERAGE SAMPLE." And, like many other elevator operators, you'll find, too, that the SEEDBURO AUTOMATIC SAMPLER provides the only sure way of getting a TRUE, AVERAGE sample from an unevenly loaded or "plugged" car of grain, seed, meal or feed! Send for descriptive literature . . . today!

SEEDBURO

726 Converse Building., Chicago 6, Illinois



MAY
1950

Publication Office
327 So. La Salle St.
Chicago 4, Illinois
Phones—WAbash 2-3111 - 2-3112

THE MAGAZINE OF PLANT MANAGEMENT AND OPERATION

DEAN M. CLARK, Publisher
NEWTON C. EVANS, Editor
FRANK J. SLEPICKA, Advertising
Director
H. M. DESCH, Circulation Manager

REPRESENTATIVES

New York (17) K. C. PRATT
50 E. 42nd St. MUrray Hill 2-3737
Chicago (10) DWIGHT M. BLISH
100 W. Chicago Ave. Superior 7-8734

SUBSCRIPTION

1 year \$2.00 3 years \$5.00
Overseas \$3.00 Single Copy 25c

Let Our Advertisers Serve You

Arco Company, The	5
Bolton & Co., John D.	
..... Back Cover	
Burmeister Co., L.	20
Burrows Equipment Co.	17
Classified Ads	22
Day Company, The	14
Flour City Brush Co.	22
Great Lakes Steel Corporation	18
Imperial Belting Co.	10
Industrial Erectors, Inc.	19
Innis, Speiden & Co.	16
Kirk & Blum Mfg. Co.	2
Many & Co., B. J.	12 and 13
Robertson Co., H. H.	4
Screw Conveyor Corp.	19
Seedburo Equipment Co.	4
Shanzer Co., H. M.	8
Signode Steel Strapping Co. ..	3
Structural Waterproofing Corporation	15
Superior Separator Co.	23
Weller Co., B. I.	21
Wiedenmann & Son, W. C.	11
Willis Corporation, K. I.	22

DON'T LET X Mark the Spot

FOR EFFECTIVE DUST AND GAS PROTECTION

ROBERTSON Explosion Ventilators

WILL

Remove the more explosive fine dust from the leg by continuous gravity action

WILL

Release pent-up gases and flames in case of an explosion

WILL

Minimize the possibility of a secondary explosion by continuously venting gases

ROBERTSON Ventilation Engineers

WILL

Inspect your elevator and recommend proper sizes and number of ventilators to secure maximum protection at minimum expense.

Write Now for Details

H. H. ROBERTSON co.

Farmers Bank Building
Pittsburgh, Pa.



CORN PRODUCTS REFINING CO., ARGO, ILL. Applier: Consolidated Chimney Co., Chicago, Ill.

Ever See a Building "GET TOUGH"?

You're looking at one of the toughest concrete grain elevators you ever saw. There's not a chink in its armor from top to bottom because it's protected by a thick, tough, but elastic coating of Dum Dum Masonoc. Every opening or break in its original surface has been sealed tight against wind, rain, snow and ice. Not just for now but for years to come!

How tough are your buildings?

Look at your own buildings with concrete, stucco or masonry surfaces. See those danger signs? Weather strains? Tiny cracks? Small

breaks? Nip them in the bud now with Dum Dum Masonoc. Economically applied by experts in a coating many times the thickness of paint, Dum Dum Masonoc protects in every kind of weather. It makes your buildings tough.

Bring your problem to Arco today!

Act now! Give your buildings a new lease on life. Get all the facts about Dum Dum Masonoc in an interesting booklet available without charge or obligation. Address Dept. G-5. Ask for the names of experienced appliers operating in your vicinity. Write, wire or call Arco today!

"Dum Dum" is a registered trademark of The Arco Company.

DUM DUM MASONOC OFFERS THESE 4 BIG ADVANTAGES

INSULATES . . . Applied 1/16" to 1/8" thick; insures extra insulation and protection.

STAYS PLIABLE . . . Expands and contracts with ordinary movement of building surfaces.

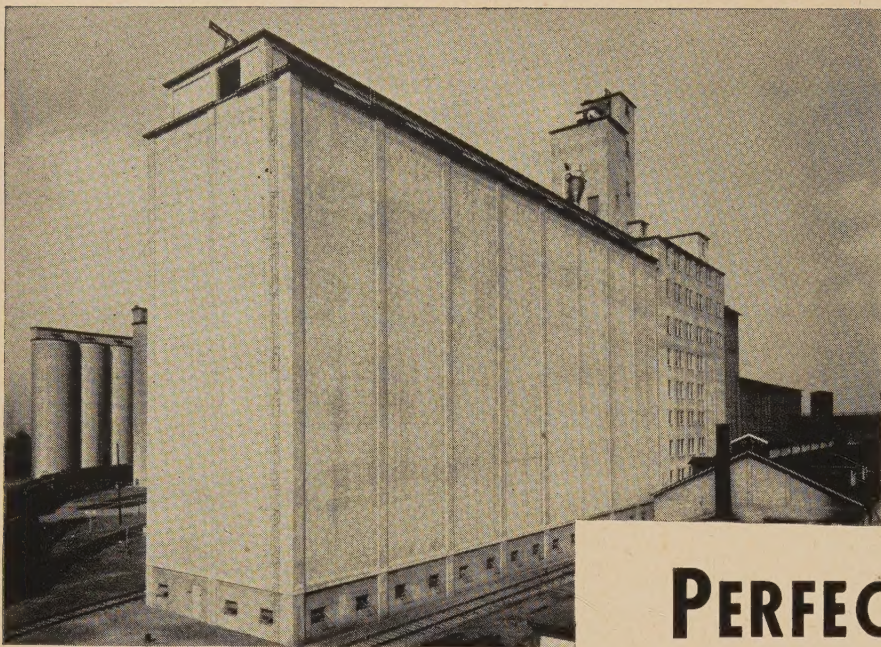
FILLS CRACKS . . . Eliminates the chief source of destructive surface deterioration.

HEALS ITSELF . . . If outer surface is bruised or broken, the under-surface hardens at point of abrasion.



Paints, Lacquers,
Varnishes, Enamels,
Protective Coatings

TESTED FIRST TO MAKE IT LAST!
THE ARCO COMPANY • CLEVELAND • LOS ANGELES



This modern grain cleaning and storage building is the latest of many structures comprising plant of National Biscuit Co., Toledo. (Designed and erected by Macdonald Engineering Co.)

Big Toledo Plant Keeps Modern By

PERFECT PLANNING

NO INDUSTRIAL plants are better adapted to aerial photography than grain elevators and processing mills. This can be well understood from our front cover view this month, showing the magnificent plant of The National Biscuit Co. at Toledo, Ohio. (Another aerial view from a different angle is also shown here.) To the original mill building erected in 1892, new structures have been added until the property today is of considerable magnitude.

The outstanding feature is that all buildings have been part of a well-designed plan. Despite the area occupied, the machinery has been installed in a compact way. There is virtually no waste space and modern methods of conveying, elevating and cleaning have been used throughout.

Oldest structure of the entire group is the flour mill—a 6-story brick building—located directly behind the small tanks shown in the center of the aerial picture. Its position can be more accurately determined from the ground plan. The mill is noted for the excellence of its products and has the finest type of equipment.

However, this story will not concern itself with the mill, but with the grain storage and handling facilities and the unexcelled cleaning arrangement. Other than the original mill, all buildings shown in the picture were built by the Macdonald Engineering Co., Chicago.

Total grain storage is now in excess of 6,000,000 bus. Grain is received by water and rail, with ample facilities for shipping out grain by boats and railroad cars as well as receiving it.

The Initial Storage Unit

First, in order of erection, was the small group of concrete tanks, shown in plan at upper right. We say

“small” only by comparison with the later storage bins, for these tanks, built in 1927, have a capacity of 1,075,000 bus. They consist of 12 cylindrical bins, 10 of which are 37 ft. in diameter, one 32 ft. 9 inches, and one 25 ft. 2 inches.

Old Elevator Removed

Beside them was originally a 750,000-bu. wooden elevator with steel tanks. The steel tanks were razed by the Macdonald Engineering Company in 1948 to make room for a modern storage and cleaning plant. The wooden elevator is currently being removed and this removal will eliminate a serious fire hazard in addition to possible rodent damage and insect infestation.

The 1930 House

In 1930, a contract was let to Macdonald for more grain storage and the tanks and headhouse shown beyond the 1927 house were erected.

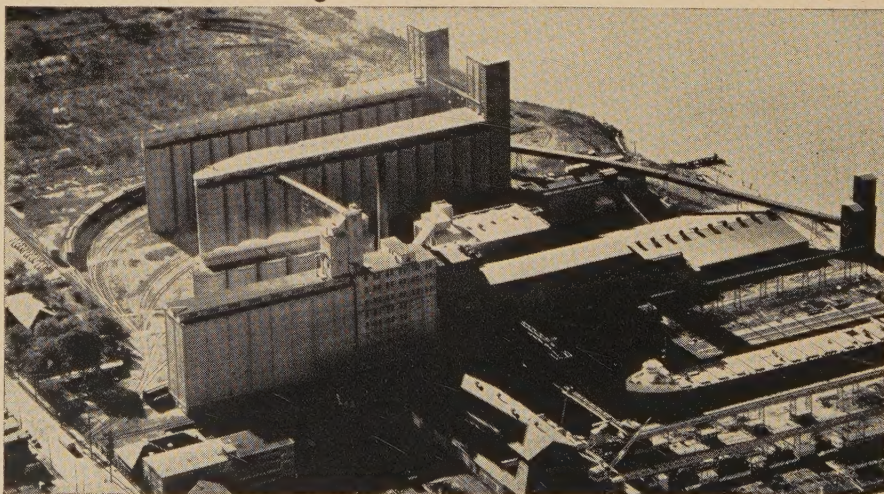
Those tanks were 25 ft. 6 inches in diameter and about 110 ft. high. Total storage capacity is about 2,000,000 bus.

The headhouse is 202 ft. above grade. Total length of building is 435 ft. 9 inches. The track shed is 145 ft. long and 50 ft. wide with a 40 ft. car dumper.

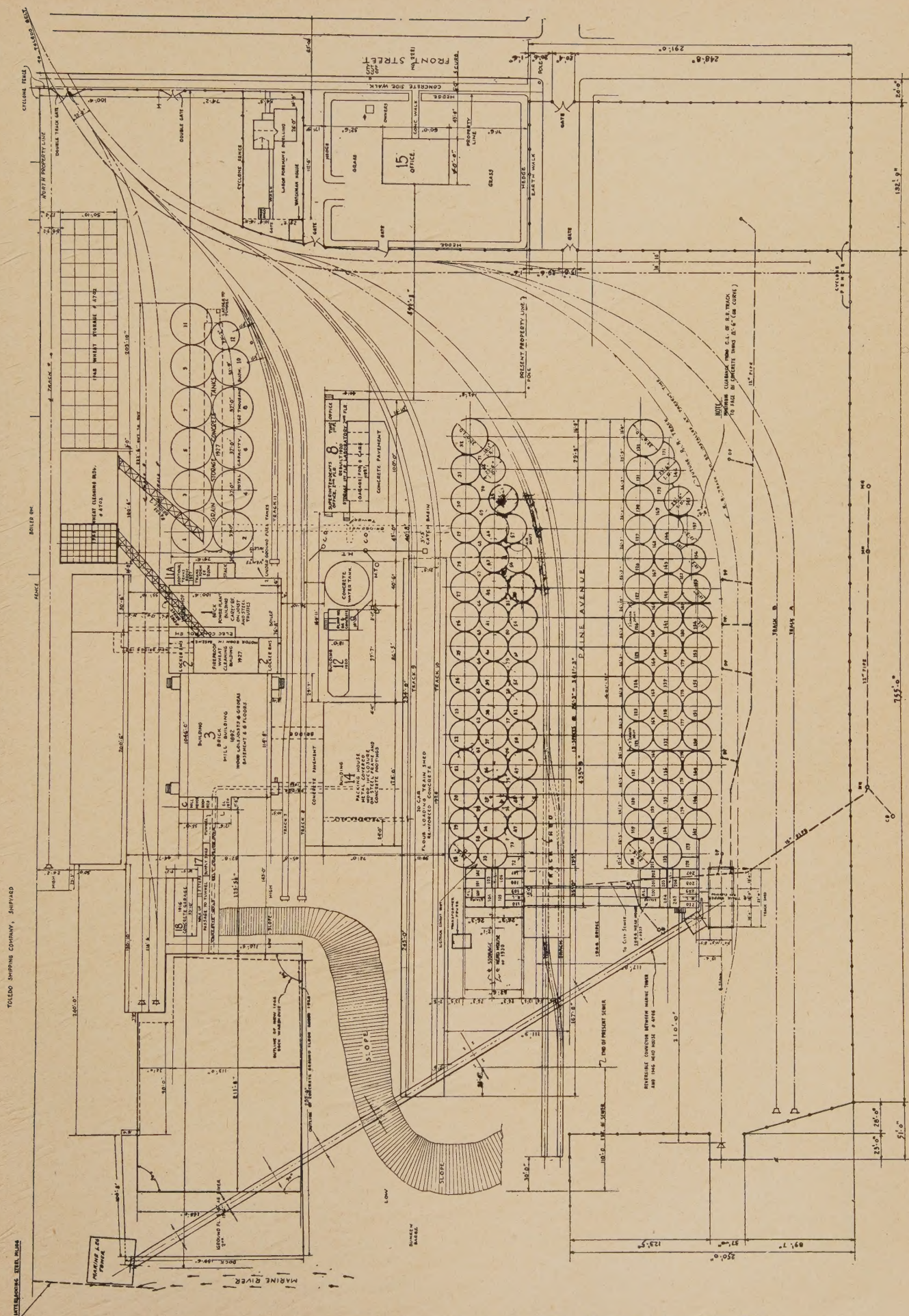
There is a receiving leg of 25,000 bus. per hr. operated by a 200-h.p. Allis Chalmers motor and a 10,000 bus. per. hr. turning leg with a 60 h.p. motor of same make. Also installed is a 2,500-bu. Fairbanks-Morse scale. Altogether in this house are 16 Allis-Chalmers motors and 15 Falk speed reducers.

The 1946 House

The so-called “1930 House” proved so satisfactory in operation that in Jan. 1946 a contract was given Macdonald Engineering Co. to build an exact duplicate with only minor changes. This new structure was and



Aerial view of grain storage tanks, cleaning building, conveyors, main leg, mill and other buildings of National Biscuit Co., Toledo, Ohio. New cleaning and storage building is in foreground with mill in center and 1946 House in background.



continues to be known as the "1946 House".

The headhouse and concrete storage tanks were of the same size and design as the twin structure. However, the track shed was made a trifle smaller as, at present, cars are unloaded by power shovels and there is only one line of track through the shed. There are three additional tracks located south of the shed for storage and switching purposes.

Provisions were made in the design of the unloading pit so another car dumper could be installed in the future if necessary.

Conveyor Changes

One important change which had to be made was in the reception of grain from lake boats. The marine leg, originally designed by Macdonald and built in 1930, discharged into the old wooden elevator. As destruction of the wooden elevator was anticipated, it was necessary to change this arrangement.

So a long conveyor gallery was built from the marine leg tower over the tops of the existing buildings, track sheds and tracks to discharge into the headhouse of the 1946 storage. At the same time, the belt conveyor—about 600 ft. in length—was made reversible so that boats could not only be unloaded, but loaded at a rate of 15,000 bus. per hr.

A structural steel connecting gallery between the two houses carries two 48-inch Boston Woven Hose belts operated by two 40-h.p. Allis Chalmers motors. This permits the grain to pass between the two houses simultaneously in either direction at the rate of 25,000 bus. per hr.

In the "1946 House" there are also two 42 inch belt conveyors in basement, of Boston Woven Hose make, operated by two 30-h.p. Allis Chalmers motors. As in its twin house, there are a total of 16 electric motors of Allis Chalmers make and 15 Falk speed reducers.

No preliminary cleaning of grain is done in either of these storage units. All is now being performed in a special cleaning building just completed.

The New Cleaning Building

This cleaning plant which is called The "1948 House" because the contract was awarded to Macdonald in that year, although not completed and put into operation until Nov. 1949, is probably one of the most modern and best equipped of its kind in the United States.

Always noted for the excellence of its grain cleaning methods, it is generally felt by all who have looked at the layout and watched the new National Biscuit Co. plant in operation, that it closely approaches the ideal.

The cleaning plant structure is

combined with additional storage bins at the extreme north end of the property which are used for storage of mill mixes, until approved by the Products Control Division and ready for the cleaning lines.

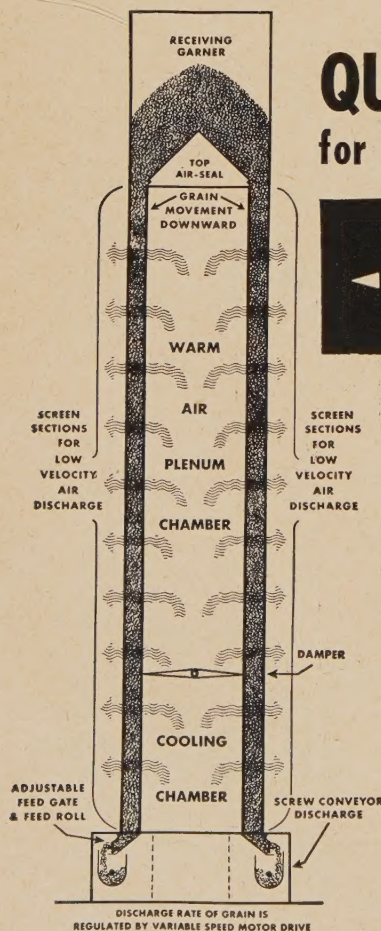
This building is connected with the other storage houses by concrete galleries. The whole building is a little over 300 ft. long by 50 ft. wide. The cleaning house proper, which also houses the wheat tempering bins, is approximately 100 ft. in length, while the storage tanks run about 200 ft. There are four rows of 16 rectangular bins, each 12 x 12 x 10 ft. high, holding 11,000 bus. each, thus giving a total additional storage capacity of about 700,000 bus. The storage part is 167 ft. high, while the cleaning section is 186 ft. high.

The tempering bins are arranged in six rows of nine bins each, or a total of 54 bins. Each bin measures 4 ft. 6 in. x 5 ft. x 64 ft. high and holds 1,100 bus. of grain.

The outside wall of all these bins is a double wall.

Three Separate Cleaning Lines

One of the most interesting features in the cleaning house is that the cleaning lines have been completely separated for the three mill units—A, B, and C—with each unit having two separate cleaning and tempering lines for conditioning two types of grain simultaneously. The wheat for



QUALITY-built to remove moisture...
for Better Quality and Bigger Profits!



COLUMNAR GRAIN DRIERS

End-view cross-section shows extreme simplicity of design that makes **BERICO** Columnar Driers so highly efficient... the grain is constantly subjected to tremendous quantities of low-temperature air while passing from hopper to discharge outlet.

Automatic thermostatic controls (Underwriter-approved); factory pre-fabricated; sturdy construction; quality materials and equipment for lowest operating and maintenance cost.



BERICO Drier, shown without cooler fan and fan enclosure. Special high carbon steel woven wire screens, forming 4 sides of dual, free-flowing columns, permit passage of tremendous quantities of low-temperature air through slowly moving mass of grain. Sizes for every capacity-need. Operate with Natural Gas, Oil, Butane or Propane.

H. M. SHANZER CO.
DRIERS • CONVEYING MACHINERY • ELEVATORS
85 BLUXOME STREET • SAN FRANCISCO 7 • CALIFORNIA

each mill unit is cleaned, weighed and tempered separately with individual weights on each cleaning line of wheat and screenings. This gives a very close control of the mill input.

Traveling screen feeders (designed by Macdonald) under the 700,000-bu. grain storage bins are controlled electrically by Bindicators in the surge bin, so that a constant stream of wheat it kept flowing through the cleaning machines.

The same arrangement is followed in each of the three cleaning flows, so that only one of them is presented here together with the screenings diagram. It's worth noting, however, that the flow for "A" mill (the one shown) has a capacity of 1,200 bus. per hr. in one line and 600 bus. per hr. in the other.

The "B" mill cleaning flow, carrying a blend of soft wheats in its two lines, has 600 bus. per hr. capacity in one line and 300 bus. per hr. in the other.

The "C" mill has the same capacity in its two lines as does the "B" units.

Wheat Goes On a Ride

The dirty wheat (using the "A" mill cleaning flow for descriptive purposes) is taken by a 16 in. belt conveyor equipped with traveling screw feeder mentioned before, to a 1,200 bu. per hr. elevator leg fitted with Nu-Hy buckets and sent through spouts between Stearns permanent magnets.

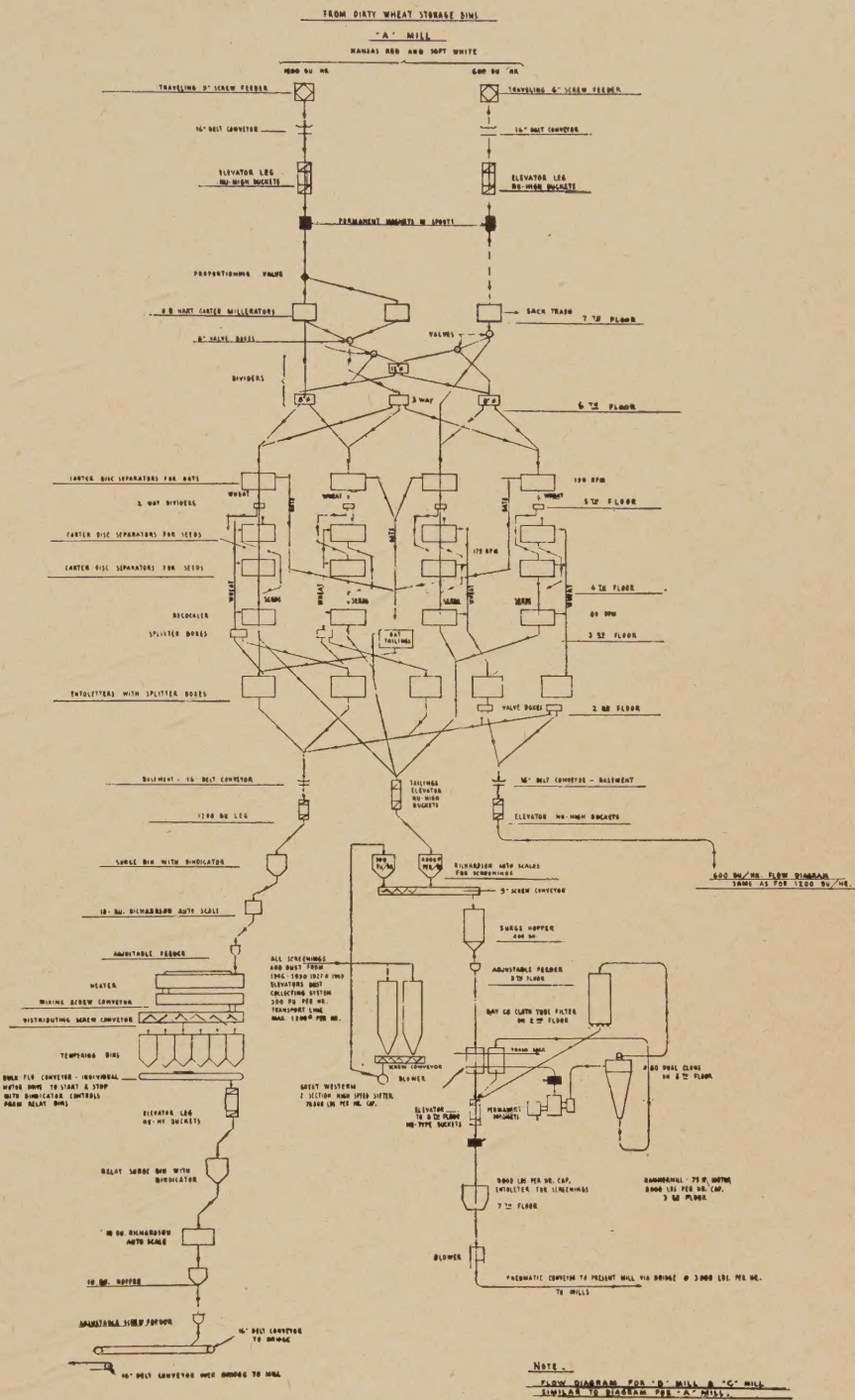
There are three Carter Millerators in this one flow which next receive the wheat, division being effected by proportioning valves of Macdonald design. Two and three-way dividers (made in N.B.C. machine shop) split the streams for the next set, a series of 17 Hart-Carter machines—four disc separators for oats, eight disc separators for seed, four recocklers and one oats tailings machine.

The main stream of grain then goes through five aspirating Entoleters (there are 11 Entoleters in the three units) on to 16 in. belt conveyor in the basement. From here it is taken by 1,200 bu. per hr. elevator leg to a surge bin equipped with Bindicator and on to a Richardson automatic scale and then to the tempering bins.

The tempering (wheat conditioning) arrangement consists of a screw conveyor where steam and water may be injected, a second screw conveyor for mixing, and a third screw conveyor for distributing over the tempering bins.

The wheat is drawn from tempering bins by Bulk-Flo conveyors, fitted with individual motor drives to start and stop, with Bindicator controls from relay bins. It is then elevated, weighed for correct blending before sending to the mill where it is again sent through Entoleters and aspirators before going to the rolls.

The whole arrangement is so auto-



Flow of grain and screenings in A mill cleaning unit (Macdonald Engineering Co.)

matic that it required more than 40 miles of electric wiring, but this has been proved well justified because of economical operation. A survey of the storage units and cleaning plants above, shows there are 140 electric motors (Allis Chalmers) and 102 Falk speed reducers.

Handling of Screenings

Screenings and dust from all three cleaning units as well as dust from the various storage units' collecting system go through Richardson auto-

matic scales to a 9-inch Burmeister screw conveyor. (Refer to screenings flow sheet above.)

Under this is a 400 bu. bin from whence through an adjustable feeder controlled by Bindicators, screenings pass through a Great Western two-section high speed sifter.

The screenings going through are sent direct to an Entoleter, while the overs or tailings go to a Stearns magnetic separator, then to Gruendler hammer mill, through a Dual-Clone

collector and a Day cloth tube filter and then to Entoleter.

A Day pneumatic conveyor of 3,000 lbs. per hr. capacity takes the finished screenings via bridge to the mill for blending with the millfeeds.

A 12 inch Burmeister screw conveyor of 1,200 bus. per hr. capacity takes cleaned wheat from A-B-C cleaning units to bins designed for Mill D — the whole wheat unit. This conveyor operates above six storage bins.

A. C. dust filters, manufactured by The Day Co. of Minneapolis are used throughout for dust control instead of conventional cyclone metal collectors.

The office of the plant is at the eastern entrance. This building may be seen among trees at left of aerial view and location determined by a look at the plan. The superintendent's office is in a small building between the 1930 and the 1927 storage units.

Here also are located the laboratory, receiving room, stock room and sheet metal shop.

Other buildings beside the mill, include bulk flour and feed storage, packing house with 22 car loading train shed, brick power plant and pump house and dock warehouse.

Both flour and millfeeds may be packed in sacks or loaded in bulk.

BALANCED RESEARCH

Fundamental research must be balanced carefully against applied research to achieve maximum results according to G. Cullen Thomas, vice-president of General Mills in charge of Products Control.

In an address before a meeting of the Nutrition Foundation, Thomas recommended that less effort be made to distinguish between the two types and that more attention be given to the achievement of a satisfactory end result.

"Too much expenditure on the uncovering of basic facts cannot be justified in terms of ultimate return to the sponsoring organization," Thomas said. "On the other hand, it is not the part of wisdom to devote all of your research funds to applied studies, since the time will come when you will exhaust the supply of available fundamental information and must resort to shotgun experimentation.

"You may be lucky enough to find a solution to your problems by this method, but in our judgment such an approach leaves too much to chance."

The pay-off of basic research is illustrated by today's family food larder which is a long way from "grandmother's day," he said. He cited the elimination of milk-borne disease through pasteurization, the introduction of canned foods, the inspection and curing of meats, the enrichment of white flour and bread as progressive attainments by reason of basic research backgrounds.

"So I would say that a food processing company not interested in basic research had no inkling at all of the foundation on which its present or future progress is, or is to be, built," Thomas said.

LIGHTING FOR FLOUR MILLS

To aid in increasing mill efficiency and production and to add to comfort and proficiency of employees, a new report, "Lighting for Flour Mills," has been released by the Illuminating Engineering Society, national technical organization on lighting. Prepared as one of the Society's Lighting Study Projects in Industry, the new report is based on surveys of lighting in existing flour mills and on trial installations.

Much of the information presented is applicable to other plants particularly in the grain processing field.

Recommendations include a table of lighting levels in various work areas from the roll floor and other processing departments to inspection and final weighing and bagging.

The report is eight pages in length and bound in blue cover stock. Single copies are available at 50 cents each from Publications Office, Illuminating Engineering Society, 51 Madison Ave., New York 10.

How Continental Grain Company Doubled Marine Leg Capacity

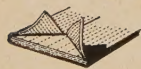
AND QUADRUPLD BELT SERVICE LIFE

■ Up until 1942, Continental Grain Company had used rubber belting on the 75-foot marine leg of its Chicago elevator. Load was 4,000 bushels per hour and the belts lasted about six months.

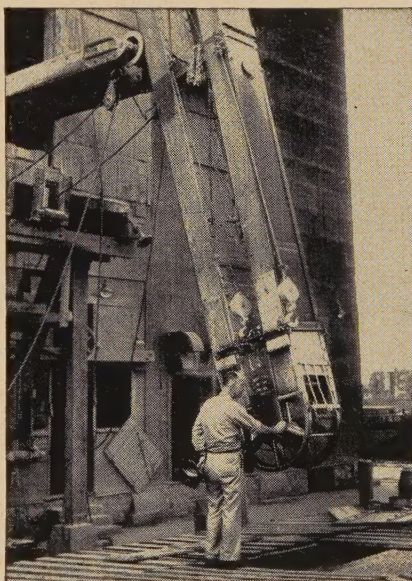
On recommendation of Imperial engineers, 16"x 8-ply BLACK REXALL was installed. Belt life increased 4 times.

Mr. Frank Crombie, Superintendent, was so satisfied with results that he installed larger buckets, spaced them twice as close, and increased belt speed and horsepower. The same elevator is now unloading at the rate of 8,000 bushels per hour. Labor expense has been sharply reduced and barges are put back in service twice as fast. Considering the increased efficiency, BLACK REXALL has proved itself 8 to 10 times better than any belt previously used.

Job-Designed Belting Costs Less to Use



Imperial BLACK REXALL belting handles more grain for less money because it is manufactured specifically for heavy-duty



elevator service. One fall in the boot more than offsets any initial "saving" on the cost of "general purpose" belting. If control of grain handling costs is part of your job, get the facts on Imperial. Write for Data Sheet 48-2, and prices, today.

Imperial INNER-LOCKED **BELTING**
The Right Belt for Each Job

IMPERIAL BELTING CO., 1756 S. Kilbourn Ave., Chicago 23, Ill.

WARD STANLEY
Kansas City, Mo.



THE PRESIDENT'S CORNER

DURING the past year it has been my pleasure to secure several new members for SOGES. Two of these new members have come to me and thanked me for inviting them to become members. This makes me feel I have favored friends and accomplished something for the Society.

There is no doubt in my mind but that there are many fine superintendents who operate the grain elevators in the smaller towns, awaiting an invitation from some member of the SOGES to ask them to become members of the organization.

Some of our very best workers are associate members and there are many more fine fellows that we come continuously in contact with who would make good National associate members just waiting for you or me to invite them to become members.

I am sure there is not a member of this organization who could not secure a new member in the next several months and that he would be very proud to sign a membership application. I ask you to get behind our most able chairman of the Membership Committee, Bob Bredt, and get a New Membership Campaign started so we can make this year a year of considerable growth in our Society.

Bob Bredt stated at the New Orleans meeting that there will be this year, a very strenuous membership campaign.

Said he: "We will expect considerable assistance from the various local Chapters, and we are going to do quite a lot of work through the mail. We have a very large committee, and we shall ask all of the members for their co-operation, to get in new members, because that is what the organization needs."

"With the older members retiring, and taking less and less of an active part, we hope and must continue to grow, and make as much or more progress in the next 21 years, as we have in the past

period of the same length. We are going to ask all the members for help, and when we call on you, we want your co-operation."

It is the hope of the officers and directors of this Society, that we will establish two or more new Chapters this year and with the combined efforts of the membership, we can really go places.

"FISHERMAN'S SPECIAL"

The special event indicated by the title was held at Freddie's Cafe in Minneapolis by the SOGES Minneapolis Chapter on May 2. It was regarded as a prelude to the fishing season and a good crowd was on hand. Speaker of the evening was Raymond E. Johnson, Division of Game & Fish, State of Minnesota. His topic was: "Research Steps We

REMOVE "DUST DANGER"!



CUT EXPLOSION and FIRE RISK!

Dust Danger constantly threatens your investment and sales! But you CAN do something about it! Let skilled Wiedenmann dust control experts survey your plant . . . design, engineer and install an efficient, low-cost Wiedenmann Dust Control System . . . **TAILOR MADE** to whip your individual problem.

You benefit many important ways from a complete Wiedenmann System. Reduce insurance and housekeeping costs, improve employee morale, cut accidents . . . prolong machinery life.

Ask Us Today for a FREE SURVEY!

W. C. Wiedenmann & Son, Inc., Desk 0000
1820-24 Harrison Street
Kansas City, Missouri

Send my FREE COPY of Wiedenmann's brochure on Dust Control Systems at once!

☐ Check if you are considering requesting our Free Survey.

Firm Name

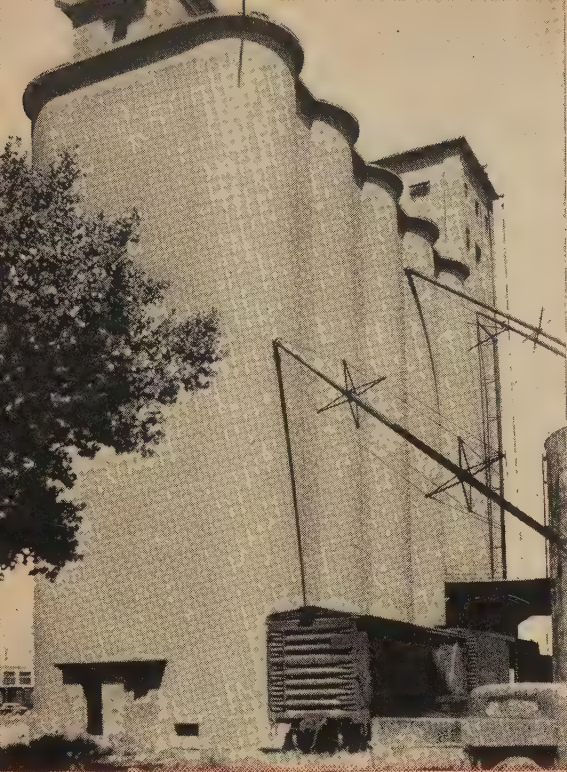
Mailing Address

City and State

Name and Position

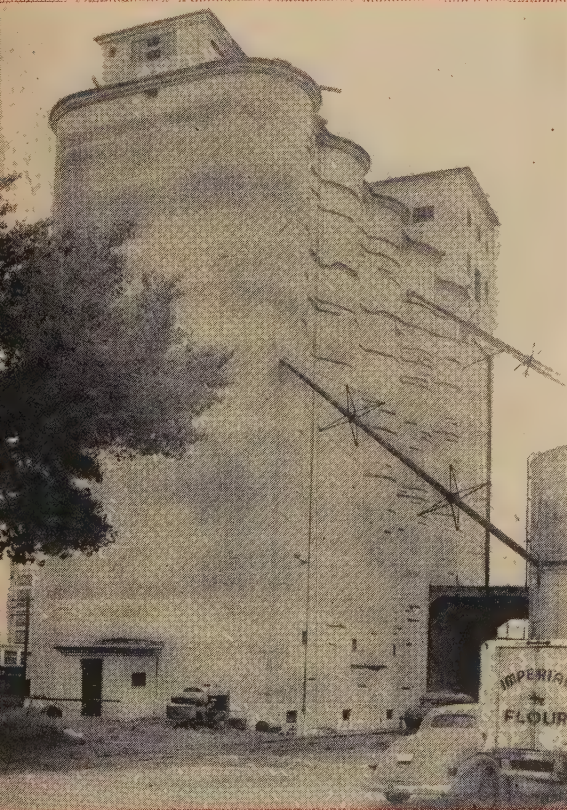


1820-24 HARRISON STREET • KANSAS CITY 8, MISSOURI



AFTER

This beautiful completed job of restoration is a typical example of B. J. Many Co. work. All disintegrated concrete has been chipped out, cavities filled with Gunitite reinforced with mesh anchor bolted in place. The overall protective coating was then applied in four thick applications — it remains flexible.



BEFORE

This shows how the same elevator appeared before the Many specialists began the job. Moisture has deteriorated the facing, exposing steel to further rust which spalled off more and more of the original concrete.

To **SUPERINTEND** the Destructive Power and the Explosive

Construction costs today make imperative a corporation policy of **STRUCTURAL MAINTENANCE** and **WEATHER PROTECTION** that harnesses every scientific safeguard.

Moisture is the wrecker of grain elevators. All the works of man are eventually destroyed...only in desert areas is their survival time extended.

With concrete, deterioration is **caused** entirely by one thing—water . . . and water **results** in freezing and thawing, corrosion of the steel, excessive expansion and contraction, combination with destructive chemicals in the air to develop acids of decomposition, rust and other mineral oxidation. Grain elevators have the added stress and strain of varying loads which cause irregular cycles of expansion and contraction.

Rust has the almost explosive power of 230% expansion! Structural steel buildings and also reinforced concrete are subject to this irreparable destruction. These inevitable, relentless, inexorable forces must be met. Only by eliminating the **cause**—moisture—can the life of these structures be maintained for more than a few years.

The B. J. Many Company is known nationwide among companies with billions of dollars invested in great structures—grain elevators, railroads, bridges, tunnels, dams, factories, office and institutional buildings, for its skillful and thorough scientific methods of weather protection for concrete, steel, brick and other works.

B. J. MANY CO.

Specialists in Brick and Concrete Restoration and

30 North LaSalle Street

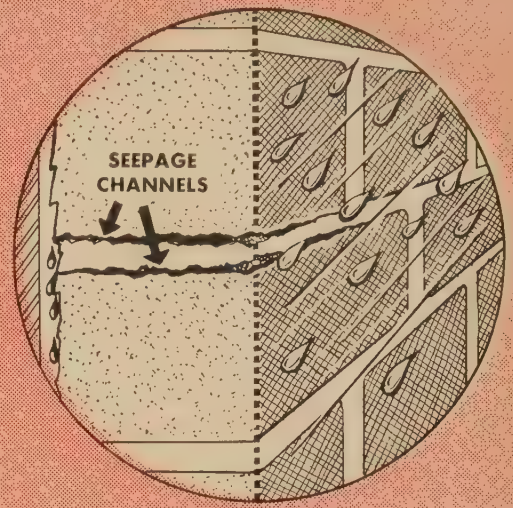
ENTS Who Know Power of Moisture Power of Rust...

One of the early engineers in the modern weather protection field, the B. J. Many Company, were among the first to recognize that concrete and mortar deterioration is caused by only one thing—**water**. The Many IN-FIL-TRO system is now recognized as the best practice in concrete and mortar weather protection. Scientific laboratory tests by the Robert W. Hunt Co. show this method far superior to any other for masonry joints and repairs.

When the Many Company undertakes a job of protecting a gigantic grain elevator down to the tips of its foundation and up to the tops of its roof... its trained engineers not only go **down** and **up** but **in**—THOROUGHLY... All disintegrated concrete is chipped out. Cavities are filled with Gunitite reinforced with mesh anchor bolted in place... a lasting job. Then comes the protective coating applied in four thick applications; remains flexible.

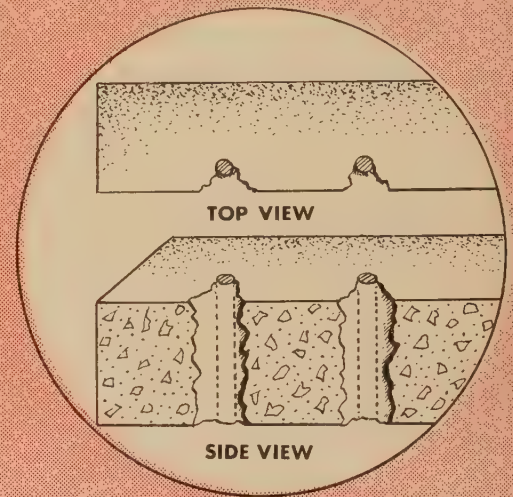
The Many Organization has done **many** difficult jobs of elevator restoration and protection for **many** of the best known corporations in America. Spread over the years, **MANY** Building Protection offers greatest economy and satisfaction.

On request, a B. J. Many Co. senior engineer will inspect your structures, report on his survey and give you a cost estimate for essential repair work. **No obligation**. All B. J. Many work is done by our own experts and guaranteed for 10 years. Building leakage and deterioration accelerate "as the square of the years." Call or write us today.



MORTAR JOINT

Showing separation crack and seepage channels which allow moisture to penetrate to structural steel and cause irreparable damage



CONCRETE

Showing how reinforcing steel in unprotected concrete has rusted (230% expansion) and spalled off outer layers exposing steel to further deterioration and eventual irreparable damage and strength failure.



AUTHORIZED AGENTS:

Seattle 11, Washington, Pioneer Sand & Gravel Company, Inc., 901 Fairview Ave., N.

Oklahoma City, Oklahoma, Stewart Construction Co., 1357 S. W. 11th Street

Fort William, Ontario, Canada, Northland Machinery Supply Company, Ltd., 203 Hardisty Street

K. R. Shupp, Charlotte, N. C. (2), 310 Piedmont Building
Toronto, Ontario, Canada, Northland Machinery Supply Co., Ltd.

Winnipeg, Manitoba, Canada, Northland Machinery Supply Co., Ltd.

Jacksonville, Florida, George P. Coyle & Sons, 412 Park Street

BRANCH OFFICES

West Long Branch, New Jersey — 409 Monmouth Rd.
Baltimore 1, Maryland — 1100 Baltimore Life Bldg.
Fort Wayne 2, Indiana — 817 Monroe Street
Mobile 3, Alabama — 903-A First Nat'l Bank Bldg.
Birmingham 3, Alabama — 503 North 20th Street
New Orleans, Louisiana — 504 Delta Bldg.

O., Inc.

ervation

icago 2, Illinois

Follow in Surveying Fishery Situation in Lakes."

OMAHA ELECTION

At a meeting of the Omaha SOGES Chapter on April 11, Vincent Blum of Omaha Elevator Co., was elected President; Frank Guinane, Interstate Grain Corporation, Council Bluffs, was chosen Secretary and W. S. Pool, Nebraska-Iowa Grain Co., Omaha, was made Vice-President.

BUFFALO COMMITTEES

Jack Kitching, Acting Secretary of the Buffalo SOGES Chapter reports: "Jersey Halsted says he's going to in-

vite Betty Crocker to attend the 1951 Convention at Buffalo.

"Regarding the convention committees, John Mack has been appointed chairman of the Committee To Appoint Committee. Vice-Chairmen to work with him are Henry Bowman and Earl Hoople."

CHICAGO CHAPTER MEETS IN HAMMOND

Members of the Chicago SOGES Chapter spent a pleasant and profitable afternoon on April 18 inspecting the spacious and well-equipped plant of the Farm Bureau Milling Co., Hammond, Ind. At 6 p.m. they adjourned for dinner at Phil Levant's.



"Jersey" Halsted at work in General Mills' Buffalo elevator, as shown in "The Millwheel". He's a busy man these days getting ready (even now) for the SOGES Convention in Buffalo next year. Says he "You want to get set for a real time at the 1951 Convention."

Harry Hanson presided in the absence of Lincoln Scott. However, he announced that "Scotty" was returning from Tokyo in another week by plane and that he'd be in the chair at the next meeting. A moving picture showing magnetic shovel in operation was exhibited by a Stearns representative.

RECENT CHANGES

Floyd O. Steenson has replaced John Enroth as Superintendent of the Monarch Elevator, F. H. Peavey & Co., Minneapolis.

Ray M. Gerstenberg, Jr., has been transferred from the Chicago headquarters of Gerstenberg & Co. to Swanson & Tucker (a subsidiary elevator) at Hampshire, Ill.

TO BE OR NOT TO BE "INFLAMMABLE"!

Bringing discussions on the use of the word "flammable" up to date, the National Fire Protection Association announces that many organizations have adopted "flammable" to designate materials that are easily ignited and burn with unusual rapidity. In law, however, the NFPA points out, the word "inflammable" persists.

"Now, after 25 years, the Congress of the United States has given official sanction to 'flammable,'" the NFPA reports in its *Fire News*. "It has just come to our attention," the *News* declares, "that in Chapter 39 of Public Law 772 (80th Congress, Section 835, Approved June 25, 1948, Effective September 1, 1948) the word 'flammable' is used in place of 'inflammable' with reference to Interstate Commerce Commission regulatory powers.

"The Civil Aeronautics Board adopted the word 'flammable' in their Revised Regulations on Transportation of Explosives and Other Dangerous Articles (Civil Air Regulations, Part 49, 7/20/49)."

NATIONAL SURVEY SHOWS: DAY EQUIPMENT *the predominant choice* OF MILLS & ELEVATORS

A recent survey conducted by an independent research organization showed DAY equipment to be the predominant choice of mills and elevators.

Designed to establish The DAY Company's competitive position in these markets, this survey asked a representative group of mill and elevator personnel "To what firms would you probably send inquiries if your company were planning to buy the various pieces of equipment listed below?"

Fifteen different equipment items—only five of which are manufactured by The DAY Company—were listed in the survey. The additional ten items were included to eliminate any possible bias.

Results for the five classifications of equipment manufactured by The DAY Company are graphically represented at the right. These show The DAY Company either ranked first or tied for first in four of the five classifications.

Proof that DAY leads the field in dust control is shown by a margin of preference ten times greater than that of the next manufacturer. Since 1881 DAY engineers have maintained dust control leadership by constantly improving equipment through research and experimentation. For engineering assistance and cost estimates, Write-to-DAY.

Dust Control Equipment

DAY Co. 48.2%

Co. A 4.7%

Co. B 4.7%

Steel Storage Bins

DAY Co. 50.8%

Co. A 6.2%

Co. B 3.1%

Steel Spouting

DAY Co. 16.0%

Co. A 12.0%

Co. B 10.0%

Steel Elevator Legs

DAY Co. 10.5%

Co. A 10.5%

Co. B 9.3%

Industrial Blowers

Co. A 21.4%

Co. B 16.7%

DAY Co. 11.9%



SINCE 1881

The DAY Company

814 3rd Avenue N. E., Minneapolis 13, Minnesota
IN CANADA: P. O. Box 70, Fort William, Ontario
Branch Plants in Fort Worth, Buffalo and Welland, Ont.

Plants and People

DEEBACH LOSES FATHER

Frank Deebach's, Superintendent of General Mills Rialto Elevator in Chicago, father passed away on Friday, April 28. He had been ill for some time.

LEE HEADS HARVEST QUEEN GRAIN OPERATIONS

Clarence E. Lee has been appointed vice president in charge of grain operations for the Harvest Queen Mill & Elevator Co., Plainview, Texas.

Mr. Lee has had a long experience in the grain and milling business. Until a short time ago he was general manager of the Crouch Grain Co., grain division of the Tex-O-Kan Flour Mills Co., Dallas. Previously he was in the grain business in Kansas City and was associated with the International Milling Co. for some time as manager of the International plant at Greenville, Texas.

GILL IS STALEY TECHNICAL DIRECTOR

Lowell O. Gill has been appointed technical director of A. E. Staley Manufacturing Co., Decatur, Ill. The technical department engages in research and technical sales service work.

Mr. Gill, who has been assistant director since 1947 and with Staley since 1915, succeeds Howard File. Mr. File relinquished the directorship for health reasons but will continue to serve the company in a consulting capacity.

OHIO TERMINAL DOUBLES CAPACITY

Now under construction are additions to the Anderson Truck Terminal Elevator at Maumee, Ohio, which will increase grain storage capacity to 1,000,000 bus. and increase unloading capacity from trucks and semitrailers to 500,000 bus. a day. Announcement was made by Harold Anderson, head of the family partnership operating the terminal.

One feature will be a glass-enclosed booth from which one man can control the unloading of 15,000 bus. of grain an hour from trucks and trailers and then distribute the grain at the same rate into various tanks of the elevators.

This mechanical handling of grain involves operation of the truck lifts, opening and closing of underground bins, control of underground and overhead conveyors and elevating legs and control of automatic equipment that distributes grain into the proper elevator storage compartments. Loading out capacity into freight cars will

be doubled with two tracks on the Wabash Railroad, which connects the terminal with the Anderson docks on the Maumee River, as well as with principal main rail lines. The construction work is expected to be finished in July, 1950.

NEW STORAGE FOR IGLEHEART

Work will soon be started on new grain storage and handling facilities with a capacity of 2 million bushels at the Igleheart Bros., Inc., plant, a division of General Foods, Inc. The new structure will be located on property adjoining the plant at Evansville, Ind.

Truck unloading dumps, capable of handling 25,000 bus. of grain an hour, will be installed.

Bids for the main construction will be invited in June. Arthur Koenig, a member of the General Foods manufacturing and engineering department, will act as project engineer.

Final design for the installation is being made by the Macdonald Engineering Co., Chicago.

OUT-OF-TOWN VISITORS

Frank Kohout, A. C. Horn Corporation, Minneapolis.

A. W. Bosch, Sodas, N. Y.

Charles J. Winters, Supt. Public Grain Elevator, New Orleans.

DO YOUR BIN WALLS LEAK?



Our Restoration Methods Include:
CONCRETE RESTORATION

WATERPROOFING

- Time-Tested Methods
- Time-Tested Materials

NATIONAL APPLICATORS

OF

ARCO DUM-DUM MASONOC

AND

FLINKOTE MATERIALS

FOR A BETTER JOB

Write or Phone

Structural Waterproofing Corporation

1619 Builders Building, 228 N. La Salle Street
CHICAGO 1, ILLINOIS

Offices in Principal Cities

Service and Equipment

ELECTRONIC CHOKE DETECTOR

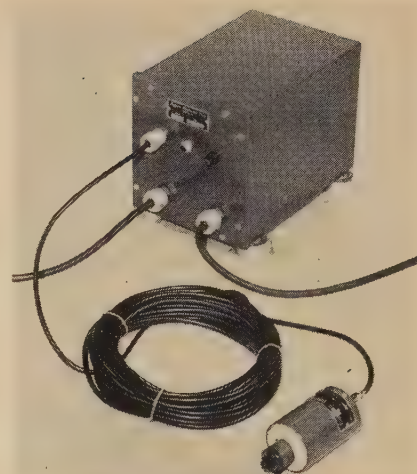
Savings of \$100 a day are reported by Federal Mill, Lockport, N. Y. when using Signa Flow, an electronic device for detecting dry flow stoppages. This new electronic detector is being produced by the Buffalo Electronics Corporation of Buffalo, N. Y.

The device employs a sensitive

needle mounted in the side or top of the chute of spout. Its voltage output is so small however that it must be amplified electronically. Output of the amplifier, in turn is fed to a control panel.

Where it is necessary to warn operators on various floors, Signa Flow can be easily hooked up with horns or lights to perform this service.

In addition to its use in detecting



Signa Flow Choke Detector

stoppages the device can also find application in detecting and signaling when a hopper has been filled to the highest desirable point.

This simple detector notes stoppages of dry materials flowing at a rate as low as 2 oz. per hr. Choke ups even at the super sensitive needle are also detected and when the stoppage is cleared, Signa Flow automatically resumes operation. This guarantees product uniformity when two or more materials are mixed.

ANOTHER LARVACIDE LOG

Volume XI of *The Larvacide Log*, a scientific bulletin on commercial fumigation, issued annually by the Insecticide Division, Innis, Speiden & Co., 117 Liberty St., New York 6, N. Y., is now available for distribution, according to Richard P. Porter, Editor-in-Chief.

The Larvacide Log—a 34-page bulletin—discusses the use of Larvacide (Chlorpicrin) in agriculture and also deals with new developments in commercial fumigating. It contains scientific data compiled for the convenience and reference of the research worker.

RECENT SHELDRICK TESTER BUYERS

Numbered among the representative organizations that have recently installed the Sheldrick Universal Moisture Tester, for which the Burrows Equipment Company of 1316 Sherman Ave., Evanston, Ill. acts as exclusive distributor in the United States, are:

Cargill, Inc., Washington, Iowa; Minor Walton Bean Co., Charlotte, Mich.; Blue Earth Farmers Elevator, Blue Earth, Minn.; Alhambra Grain Co., Alhambra, Ill.; Continental Grain Co., Junction City, Kans.; Monroe Grain & Supply Co., Columbia, Ill.; Fowler Grain Dealers, Fowler, Ind.; Farmers Grain Dealers Assn., Des Moines, Iowa; Public Elevator, Port of New Orleans; Producers Drier,



Kills

GRANARY PESTS BETTER

When you use LARVACIDE, you get control plus! LARVACIDE not only handles granary weevil and rice weevil, but is also deadly to lesser grain borer, saw-toothed grain beetle, flat grain beetle, Mediterranean flour moth and grain mites. Easily applied when receiving or turning, LARVACIDE's kill includes egg life and larvae. There's no explosion or fire hazard, and LARVACIDE's tear-gas warning cuts accident risk.

KILLS RATS TOO!

LARVACIDE at low economical dosage drives them out on the open floor to die, where they may be swept up without carcass nuisance! Fast acting—overnight exposure.

ISCOSPRAY SERVACIDE

Contact and fume sprays with
LASTING KILLING POWER!

Use on bin tops and bin bottoms, when empty.

INNIS, SPEIDEN & CO.

117 LIBERTY STREET
NEW YORK 6, N. Y.

BOSTON. CINCINNATI. OMAHA
CHICAGO. CLEVELAND. PHILADELPHIA

SUBSIDIARY

E. S. BROWNING CO., INC.
SAN FRANCISCO • LOS ANGELES

Inc., Stuttgart, Kans.; Oxford Farm Service, Oxford, Iowa; Boeke Feed Co., Des Moines, Iowa; Romney Grain Co., Romney, Ind.; Evansville Grain Co., Evansville, Ind.; Sheldon Farmers Coop., Sheldon, Ill.; Cargill, Inc., Savage, Minn.

Parke Burrows states: "That satisfactory results are being obtained by users is evidenced not only by highly favorable reports, but also by the fact that the Sheldrick Universal Moisture Tester is sold on a 10 day free trial basis and the percentage of units returned isn't enough to 'wad a shotgun'."

POWER FOR GRAIN PROCESSING

Of special interest to the grain processing industry is a recent publication by Caterpillar Tractor Co., entitled PROCESSING FLOUR AND FEED.

The eight-page illustrated booklet points out numerous economies which can be effected in the industry by using "Caterpillar" Diesel power. "Caterpillar" offers a complete line of diesel engines for use in flour and feed mills.

Copies of this informative booklet may be obtained by writing to Caterpillar Tractor Co., Peoria 8, Ill. and requesting Form 12772.

DOUGLAS CHEMICAL HAS NEW DISTRICT MANAGER

Paul F. Smith has been appointed District Manager by the Douglas Chemical and Supply Corporation to handle sales of Douglas products in Indiana, Ohio, Tennessee, and Kentucky with offices in Cincinnati, Ohio. These products include Douglas Tetratume Grain Fumigant, used for over 35 years by the milling industry, and Tetrakil and Special Mill Spray, new products for on-the-farm use.

Before joining the Douglas organization, Mr. Smith was director of purchasing at the Sewall Paint and Varnish Company, and at the Austin Company, an Ohio firm. He was also with Owen Corning Fiberglas Company, and with Sunflower Ordnance Plant as office manager. Smith is a native of Harrisburg, Pa., is married, and has two children.

SIGNODE APPOINTS WILLIAMS SALES PROMOTION MANAGER

James R. Williams was recently appointed sales promotion manager of Signode Steel Strapping Company, Chicago, Illinois, according to an announcement by Pres. J. H. Leslie. Mr. Williams, in addition to his sales promotion duties, will direct advertising and publicity activities.

He brings to his new position a selling background and first-hand knowledge of the field requirements necessary for the aggressive promotion of the Signode system of steel strapping.

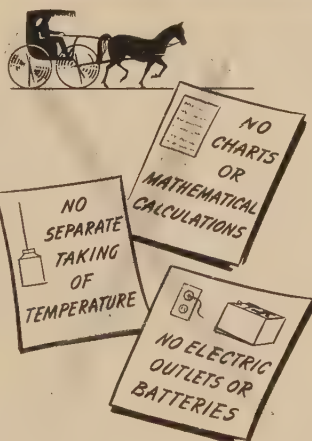
Mr. Williams has been with Signode since 1946 and, prior to his appointment as sales promotion manager, was located in the Portland office. Here, he sold Signode products in the Pacific Northwest where he gained a profitable familiarity with the great lumber industry and its many shipping problems.

Before coming to Signode, Mr. Williams spent five and a half years in the Air Force and his rank upon leaving the service was that of Lieutenant Colonel. The major part of his service in the Air Force was connected with supply work in the Northwest. In 1945, however, he was executive officer of a unit in Hawaii. For approximately 2 years before being

called to active duty with the Air Force, Mr. Williams was with a paper company in Minneapolis.

The new Signode Steel Sales Promotion Manager attended school at the University of Minnesota. He is married, has a boy six and a half and a girl two and a half years old. He makes his home in Des Plaines, just outside of Chicago. Among his hobbies are photography and magic while his favorite sports are volley ball, tennis and swimming.

This country would not amount to as much as it does if the young men of fifty years ago had been afraid that they might earn more than they were paid for.—Thomas A. Edison.



Sheldrick UNIVERSAL MOISTURE TESTER

The Greatest Advancement in Twenty Years

The secret is control.

CONTROL of calibrations by built-in correlator dial gives direct moisture percentage readings . . . no charts required.

CONTROL of temperature readings permits the quick testing of frozen, hot or kiln dried samples.

CONTROL of sample volume gives test after test consistency with greater accuracy.

CONTROL of electrical supply eliminates inaccuracies due to variations in line voltage.

Can be used for testing grain, feed, seed and other products. Makes complete test in less than one minute. Rugged, reliable, no maintenance. Precision-built by Sheldrick.

Do **your** moisture testing the **modern** way. Write today for literature and liberal FREE trial offer.



1316-0 Sherman Ave., Evanston, Ill.

ON THE SAFETY FRONT

Conducted By
CLARENCE W. TURNING, SOGES Safety Director

THIS is the first of a series of articles written by Herbert A. Straley, Chairman of SOGES Safety Committee and Superintendent, The Port of New York Authority Terminal Elevator. The second will appear in our next issue.

THE SOGES Safety Committee fully realizes the responsibility placed on them and our aim will be to lower the accident frequency and severity rates for grain elevators during the year of 1950.

We are naturally aware that many of our Superintendents and their

management spend a great deal of time, effort and money in conducting their plant safety programs. This point was proven by the number of excellent safety records made by elevator operators and the large number of trophies awarded by the SOGES at the 21st Annual Convention recently held at New Orleans, La.

It is our opinion that in safety work, in order to obtain lasting results, much repetition of safety ideas and safety education is necessary.

Your Committee urgently requests that all the operators of grain elevators support our Safety Contest.

As our genial and hard-working Past Chairman of Safety, Walter Teppen, has plainly pointed out, our frequency and severity rates have been as stubborn as a couple of mules to be unloaded at the New Orleans dock. Nevertheless, these mules are eventually unloaded — and so will our frequency rate come down. How? By your help and co-operation.

Part of your Committee's job, in fact a large part of it, is to see that you do not get hurt and we would like to talk to you about accidents; especially accidents that result in personal injury.

It is generally agreed that accidents are caused — they simply don't happen. They are caused by some kind of failure — machine failure, material failure or man failure.

Think Safely

To work safely you must THINK SAFELY. You folks, especially new men starting out in a new job and in strange surroundings, must be doubly alert and careful. On the job you must think of the work at hand and you will THINK LONGER than the fellow who doesn't. The hospitals are full of people who thought they were right — took a chance — don't you take any chances.

Unnecessary risks do not pay — your management does not wish you to take chances unnecessarily and you should never sacrifice safety for speed. You folks here are employed to do a certain job.

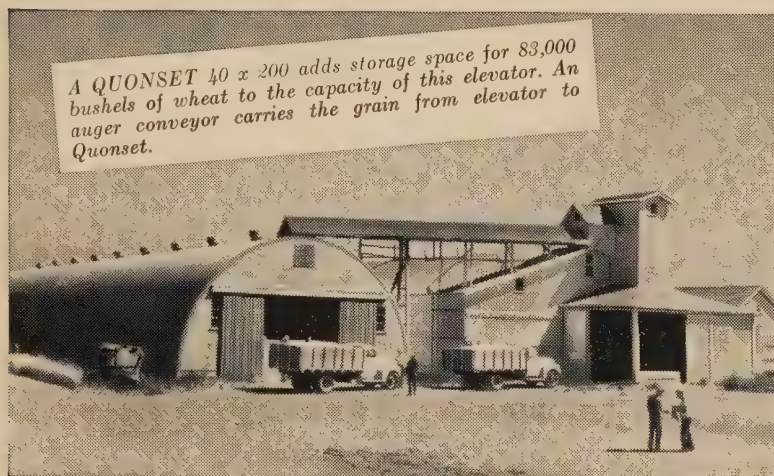
Your management has faith in you. Now it is up to you to justify their faith and do your part. Do a good job — do a safe job. The only true measure of a good job is a safe job, and the good use of common sense.

Loss by Accidents

Today, more than ever, we need our employes on the job. You are of no value to your management — or to yourself — or your family — if you are injured and are unable to perform your duty. Besides, most accidents result in suffering and pain.

Let us learn from the experience of others and the experience of safety people to do our job the safe way. Your first duty is the constant exercise of care to prevent accidents — understand and obey instructions.

If you are not sure that certain



Protect Your Future — Expand Elevator Capacity Now with Stran-Steel Quonsets

More than 150 commercial elevator operators in 20 states have already erected Quonset horizontal elevator buildings. These farsighted businessmen, by expanding their storage facilities now to take care of the price support emergency, are protecting their futures and acquiring multi-purpose space for more profitable operation.

Minimum-investment Quonsets suitable for elevator operations are obtainable in sizes to store from 10,000 to 100,000 or more bushels safely and economically.

All-steel Quonsets are ideal for grain storage. They're weather-proof, vermin-proof, rot-proof, highly fire resistant—and they're low in cost, quick to erect, and always readily obtainable. See your nearest Quonset dealer today, or write us for detailed information.

GREAT LAKES STEEL CORPORATION

Stran-Steel Division • Dept. 97 • Ecorse, Detroit 29, Michigan

UNIT OF NATIONAL STEEL CORPORATION



Stran-Steel and Quonset
Reg. U.S. Pat. Off.

practices are safe, consult your supervisor or foreman. He is as responsible for your safety as he is for your work.

If you are unfortunate enough to have an accident, you should get first aid promptly, for every injury — no matter how trivial it may seem to be — any injury may become infected and may cause serious trouble. Do not neglect to get first aid promptly and report to your foreman. He will help you make out the necessary accident reports that are required in all cases of personal injury.

These accident reports are not made out in order to blame you or hold you responsible, but to protect you and help your Safety Committee to study the case and find the cause in order to remove any hazard that may exist to prevent a recurrence of the accident.

Banish Horseplay

Horseplay — wrestling — running — throwing things and the playing of practical jokes on the job — cause too many serious accidents. Remember it is your life, your health, your limbs and your family's welfare. Make sure that your job is safe — first, last and always. Remember to think of safety.

SAFETY AWARDS TO OMAHA MEN

The superintendent and five supervisors of the Omaha (Nebr.) Elevator Co. were presented with safety awards at the annual dinner for employees at the Chieftan Hotel in Omaha recently.

The supervisors were: George Knauss, William Molck, John Jorgensen, Earl Land and Arthur Christiansen.

They were honored for achieving a record of no lost time, due to accidents, in their departments during the past year.

Special recognition went to Supt. Vincent J. Blum. He was cited for his part in organizing and conducting the Safety Committee in operation at this plant.

The safety certificates were given by J. F. Beck of Omaha. He is safety engineer in Nebraska and western Iowa for the American Motorists Insurance company of Chicago.

The speaker was George Hefflinger of Minneapolis, Minn., company president. The two new vice presidents, Harry Christiansen of Omaha and Charles Greene, recently transferred to Council Bluffs from Duluth, Minn., spoke briefly.

First Quarter Safety Contest Results						
Code No.	Man Hours Worked	No. of Lost Time Accidents	No. of Lost Time Days	Frequency Rate	Severity Rate	
X-81	3,472	0	0	0	0	
C-23	118,104	4	21	3.3	0.1	
H-57	8,900	0	0	0	0	
A-141	7,016	0	0	0	0	
X-153	4,447	0	0	0	0	
C-2	191,712	1	4	5.0	0.2	
D-22	19,634	0	0	0	0	
C-147	21,470	0	0	0	0	
O-133	2,552	0	0	0	0	
D-3	18,018	0	0	0	0	
K-136	32,464	0	0	0	0	
X-99	17,898	1	15	5.5	0.8	
X-71	109,872	6	2534	54.61	23.06	
K-26	108,659	2	19	1.8	0.1	
O-31	8,240	0	0	0	0	
M-165	10,220	0	0	0	0	
F-20	48,486	.5	59	4.1	1.0	
C-105	65,922	1	2	15.0	0.3	
F-14	8,260	0	0	0	0	
X-92	7,367	0	0	0	0	
W-64	14,448	0	0	0	0	
M-25	4,998	0	0	0	0	
M-36	3,712	0	0	0	0	
M-37	10,098	0	0	0	0	
M-38	4,831	0	0	0	0	
M-39	5,336	0	0	0	0	
M-40	8,488	0	0	0	0	
M-41	9,558	0	0	0	0	
M-42	6,796	0	0	0	0	

Reports not yet received from a number who are entered in the Safety Contest. Those superintendents are urged to complete their reports and send them in at the earliest possible time, so the figures may be entered in the next tabulation.

DESIGNED FOR CAPACITY



THE Nu-Hy GRAIN BUCKET
PATENTED AND TRADE MARK REG. U.S. PAT. OFF.

You don't have to be a bucket expert to learn why Nu-Hy Buckets increase bucket elevator capacity. The design tells you. Note the contour . . . the high sides . . . the high lip . . . the wide bottom. These four points mean picking up, carrying and delivering greater loads. You can also space the buckets closer to eliminate loss gaps on the belt. The bottom contour of bucket conforms to the top. Grain is picked up smoothly . . . no steam shovel attack. Discharge is perfect . . . no backlegging. Modernize your legs with NU-HY'S!

Write for Form No. 76 to enable us to analyze your problem.

Manufactured and sold under license in Canada by Sullivan Mill Equipment, Ltd., 637 Davenport Road, Toronto, Ontario.

Screw Conveyor Corporation
707 HOFFMAN ST. HAMMOND, IND.
ENGINEERS MANUFACTURERS
TRADE MARK REG. PRODUCTS U.S. PAT. OFFICE

"The Mark of a Good Job Well Done"

MORE THAN 10,000 CONTRACTS FOR SPECIALIZED ERECTION COMPLETED IN 22 YEARS

THE INDUSTRIAL ERECTORS, INC.

ENGINEERS AND ERECTORS OF MATERIALS HANDLING EQUIPMENT,
STRUCTURAL SUPPORTS, & PRODUCTION MACHINERY
CHICAGO (8) ILLINOIS

1316 W. CERMAK ROAD

ALL PHONES: SEeley 3-1677



1
George Carlson, Albany; Harry Lehman, La Crosse; Maurice Irons, Guest; Harold Van Tine, Buffalo; Wally Herberg, Baltimore; Al Glover, Minneapolis Office; Frank Van Remortel, Maa-
meee.



2
Fred Carlson, Minneapolis; Red Wilson, Duluth Office; Glenn Erlandson, Superior; John Wintheiser, Milwaukee; S. O. Jensen, Omaha; Andrew Olson, Kansas City, Mo.; Orrin Kinman, Kansas City, Mo.



3
Roy Johnson, E. St. Louis, Ill.; Royce Salisbury, Albany; Harold Johnson, Minneapolis Office; Wilbur Bindenagel, Kansas City Office; Clarence Swan, Mexico; Al Kater, Milwaukee; Henry Larson, Ogdensburg; Charles Empkey, Omaha; Wm. Irgens, Norris City; Robert Burge, Minneapolis Office.



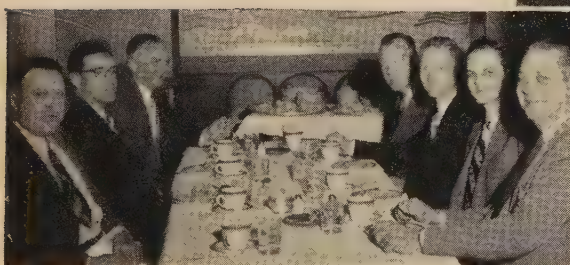
4
Norm Williams, Minneapolis Office; Elmer Grant, Superior; George Nelson, E. St. Louis, Ill.; Frank Stubbs, Memphis; Ev Thomas, Minneapolis Office; Ward Peterson, Chicago; Robert Jacobson, Minneapolis Office; Mark Marshall, Albany



5
Harold Gray, Minneapolis Office; Buzz Laramie, Buffalo; Robert Parrot, Minneapolis Office; Dunk Watson, Minneapolis Office; Duane Norby, Maa-
meee Office; Frank Blodgett, Guest; Hap Wyard, Buffalo Office.



6
Roy Gretzer, Minneapolis Office; Joe Bailey, Minneapolis Office; L. L. McClellan, Milwaukee Office; George Thompson, Superior; Russ Shields, Morris; George Hull, Savanna; C. D. Dulian, Ottawa; Wayne Lempke, Chicago.



7
Adolph Swendsen, Chicago; Russ Fitzgerald, Chicago; Charles Hoffman, Buffalo; Fred Johnson, Sleepy Eye; Dan Nygaard, Buffalo; Lester Konz, Chicago; Ken Erlandson, Minneapolis.

Cargill Superintendents

THE accompanying picture shows scenes at the banquet of Cargill Terminal Elevator Superintendents at the Nicollet Hotel in Minneapolis recently. It is reproduced through courtesy of *Cargill News*. The banquet concluded the annual meeting which took an entire week. These yearly gatherings at Minneapolis have been growing both in attendance and importance. That they are good for morale and increased efficiency has been amply proved.

A committee consisting of Elmer Grant of Superior, Mark Marshall of Albany, Arthur Laramie of Buffalo, and Orrin Kinman of Kansas City arranged the program. Each of these men acted as Chairman during one daily session.

As the convention was held in the company's home city, the superintendents were fortunate in having men from the home office talk with them about the various phases of Cargill's business. Many of the branch office managers were present, also.

The program was varied and showed clearly the wide scope of Terminal Elevator Superintendents' interest. Among the addresses were:

"Electrical Maintenance" by Russell

Fire and Dust Proof Removable Section

ELEVATORS

ELEVATOR CASINGS

SPIRAL CONVEYORS AND BOXES

SPOUTING AND BLOW-PIPING

THE "MILWAUKEE" CYCLONE DUST COLLECTOR

COMPLETE ELEVATING AND CONVEYING SYSTEMS

L. BURMEISTER CO.

MILWAUKEE (14)

WISCONSIN

Fitzgerald; "Temperature Equipment," Robert Jacobson; "Evolution of Grain," L. C. Hanson; "Grain Merchandising and Hedging," A. L. Lundgren; "Foreign Economics," J. G. Peterson; "Pensions-Stock Trust Bonus," H. B. Juneau; "Superintendents' Responsibilities," J. E. Baily; "Safety," L. H. Gretzer; "Economics and Government Trends," R. C. Woodworth; "Export Transportation," W. W. Hyde; "New Facilities and Foremanship," H. D. Watson.

The superintendents expressed pleasure in having a number of merchandisers and branch office managers in on discussions during the convention and at the banquet, where mutual problems and co-operation were discussed.

Austen Cargill was as usual the competent toastmaster at the banquet.

FLOUR SACK RETURNS AFTER 30 YEARS AND TWO WARS

By George M. Hunholz

After 30 years moving around in Europe and going through two wars, a flour sack is back home in Anthony, Kans. The bag, from the old Kramer mill in that town, is now dressed up with intricate embroidery and is on display in the public library. This came about as a result of a former resident.

The story goes back to the first world war and to Herbert Hoover's



SEEDBURO HOST TO FEDERAL GRAIN SUPERVISORS

Federal supervisors and licensed grain inspectors of the USDA, who gathered at Chicago recently for a nationwide conference, were guests of the Seedburo Equipment Company, Chicago, at a reception held in the Bismarck Hotel, Thursday evening, May 4. Among those attending were, left to right: R. H. Black, assistant to the director, Grain Branch, USDA, Washington; W. D. Smith, supervisor, Grain Branch, New Orleans, La.; Dr. Lawrence Zeleny, chief of Standardization, Testing and Research Division, Grain Branch, USDA, Washington; Hazen P. English in charge of General Field Headquarters, Grain Branch, Chicago, and R. D. Harfst, vice president of Seedburo Equipment Company.

Commission which was given the job of feeding the hungry in Europe at that time. Flour from the Kramer mill in Anthony was sent to Europe to help do the job. The flour sack in this story was in that shipment.

A letter, which accompanied the bag from Paris, related that a department store in Charleroi, Belgium, was destroyed by fire. The owners, Mr. and Mrs. Raphark Guggenheim, suffered financial ruin as a conse-

quence. Customers also suffered inconvenience, for the department store could no longer supply them with garments.

Then the American flour came into Belgium. Immediately the housewives pounced on the sacks as a means of making the badly needed garments. Mrs. Guggenheim herself organized a project to bleach the bags and embroider them with silk thread. This project netted 50,000

The Mail Bag

CANADIAN RECOGNITION

Dear Editor:

For a long time now I have been trying to have the Industrial Accident Prevention Association, which is a large organization for the prevention of accidents in Ontario, recognize the safety work the Society of Grain Elevator Superintendents is doing.

I have just recently returned from their annual Convention in the Royal York Hotel in Toronto, where 3671 delegates were present and during that Convention I am happy to report we were able to get them to recognize our Society and Safety Contest, and to use any material our Society had to offer that would be suitable for our particular group (Terminal and Transfer Elevators, Millers and Feed Manufacturers).

We are very happy about the recognition, and would like to make the very best out of it in showing them what we have already done, and what we have to offer in this connection.

Would you therefore be so kind as to place these letters before the Chairman of our Safety Committee: our President, and Secretary Dean Clark, and we will provide them with any information they require such as the names and addresses, with whom they could communicate. If they prefer they could send the material to me and I can send it on to the IAPA accordingly.

They have also promised to have a delegate at our next convention, if we will be so kind as to invite them to attend. They are making official recognition of any one in our Grain handling group who won honors in the SOGES contest. So now it is up to us to show them what it is all about.—Leslie C. Irwin, Searle Terminal, Ltd., Fort William, Ont.



THE "One and Only"

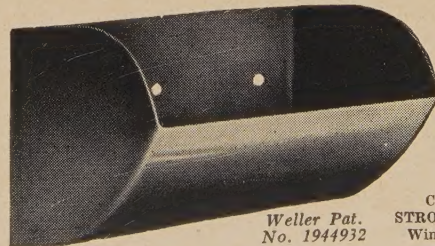
That "One and Only" goes for the Calumet Cup, too. For there's only **one** cup that has what it takes to render the all 'round super performance of the high speed.

CALUMET SUPER CAPACITY ELEVATOR CUP

That's right! There's only **one** genuine Calumet Cup. Its patented Logarithmic Curve design has never been successfully imitated. Its performance has never been duplicated.

Ask Your Jobber

about the Cup that is the popular choice of elevator operators everywhere. The "One and Only" Calumet.



Weller Pat.
No. 1944932

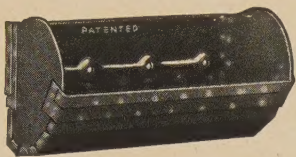
Canadian Representative:
STRONG-SCOTT MFG. CO., Ltd.,
Winnipeg, Calgary, Toronto.

B. I. WELLER CO.

327 S. La Salle St.

Chicago 4, Ill.

Thirty-six Years of Service to the Grain Trade



**THE FACT STILL
REMAINS
THAT
SUPERIOR ELEVATOR
CUPS
ARE
MADE STRONGER
WILL
LAST LONGER
HAVE
GREATER CAPACITY**

and will operate more efficiently
at less cost than other elevator cups.

**"DP" - "OK"
"CC" - "V"**

write to

**K. I. WILLIS
CORPORATION
MOLINE, ILLINOIS**

for names of distributors
and analysis form No. 20

francs in 6 months. Of course, as the women outlined the printing on the sacks with the thread, they had no idea what the words meant.

A tourist discovered the bag, told Mrs. Guggenheim about it and she gave the flour sack to the tourist so that it could be returned to its old home town — after 30 years.

**NEW METHOD
OF INSECT CONTROL**

New chemicals that make plants toxic to insects for short periods are being tested by scientists of the U.S. Dept. of Agriculture. These chemicals kill insects that suck the juices of treated plants. They are known to the entomologists as "systemic poisons," and should not be used by the public until tested further.

Studies now are being made to find



Several hundred people of the northern Illinois area witnessed the official opening of Ralston Purina's newest feed manufacturing and soybean extraction plant at Bloomington, Ill. As will be seen from the illustration, the plant is a duplicate of the Ralston Purina plant at Iowa Falls, Iowa, described in our last issue.

out if these insecticidal chemicals will break down into harmless compounds within a few days or weeks. If they do, a new approach will be available in the control of some of our most difficult insect pests.

The chemicals are being applied experimentally by the entomologists to plants being protected from insects by soil applications, seed treatments, and spray or dust applications to foliage. The treated plants absorb these insecticides and distribute them to all parts through the sap. Insects feeding on the treated plants are killed.

Chemicals most suitable for this purpose in tests, so far, are derived from the inert calcium phosphate rock, basis for our most common agricultural fertilizers. This abundant source of the basic insecticidal chemicals is treated to obtain pyrophosphoric acid, or oxidized to obtain phosphoric penetoxide. A wide variety of insecticidal chemicals can be derived from these sources.

The number of compounds that can be obtained from the calcium phosphate source is legion, the chemists of the Department say. Relatively few of them are known, and only a fair start has been made in testing those that are available.

The chemists emphasize the importance of the fact that these materials appear to break down into harmless substances. Some of them appear

to be highly selective in the insects they will kill. One kills aphids and mites and apparently none of the other insects on the plants. Studies are needed to determine their effect on beneficial insects such as bees, parasites, and predators.

One of the chemicals applied to the soil will kill European corn borers, in the stalks. Another kills aphids and mites on cotton when tiny amounts of the chemical are applied to the cotton seed prior to planting. Another kills greenbugs when applied as a spray to growing wheat.

MANLIFT SAFETY CODE

The "Safety Code for Manlifts," the development of which was undertaken last year, has just been completed and published. The scope of this Code includes platforms or brackets mounted on, or attached to an endless belt, cables, or chains, or similar method of suspension; such as belt, cables, or chains operating in a substantially vertical direction and being supported by or driven through pulleys, sheaves, or sprockets at the top or bottom.

Since this Code applies to the construction, maintenance, inspection, and operation of manlifts in relation to accident hazards to employees, many will want to read it and to adopt its safety provisions in their plants.

Copies may be obtained from the American Society of Mechanical Engineers, 29 W. 39th St., New York 18. Single copies cost 55 cents. Discounts apply to larger quantities.

CLASSIFIED

POSITION WANTED: Former terminal elevator superintendent with 25 years experience in the handling of every kind of grain. Expert in cleaning, drying, mixing and storing operations. Has set up many cleaning units, and is specialist in making malting barley. Will furnish references. Address: 5C50, c/o GRAIN, 327 S. LaSalle St., Chicago (4), Ill.

BETTER BRUSHES FOR EVERY USE!



STAR

Warehouse Push Broom

This is the broom that is used by most large terminal elevators for sweeping grain out of box cars.

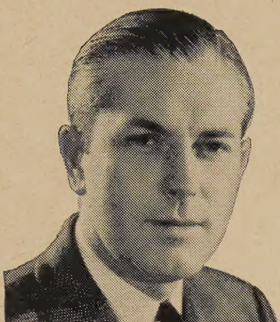
Quality Separator Brushes



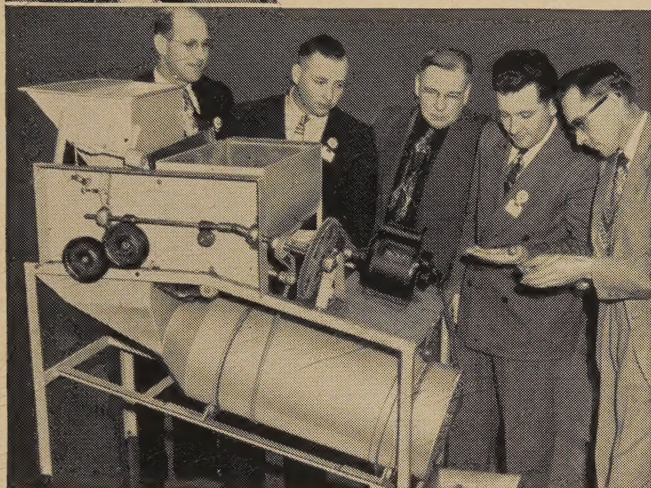
We can furnish highest quality separator brushes for any machine.

**WRITE TODAY FOR
FURTHER INFORMATION**

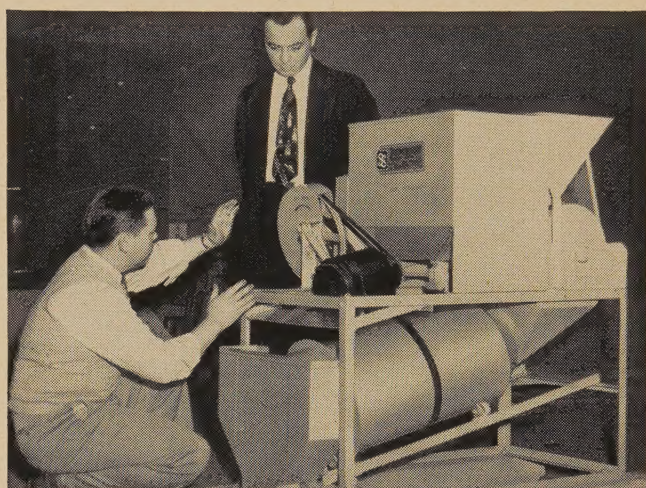
FLOUR CITY BRUSH COMPANY MINNEAPOLIS 15, MINN.



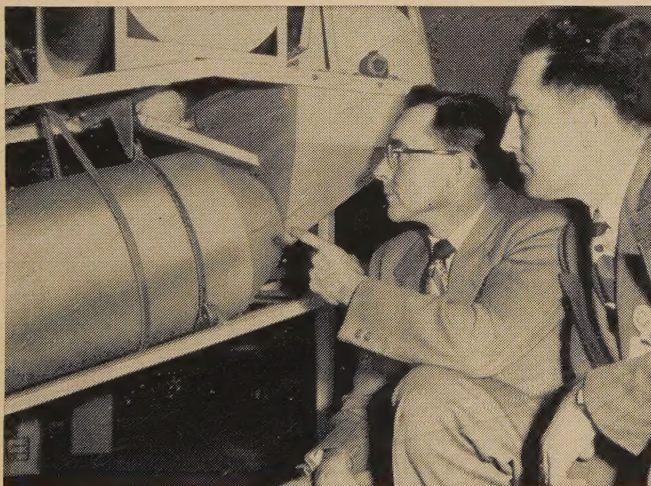
"IT'S HERE! THE SUPERIOR MODEL "S" TREATER...with a new way of treating seeds"



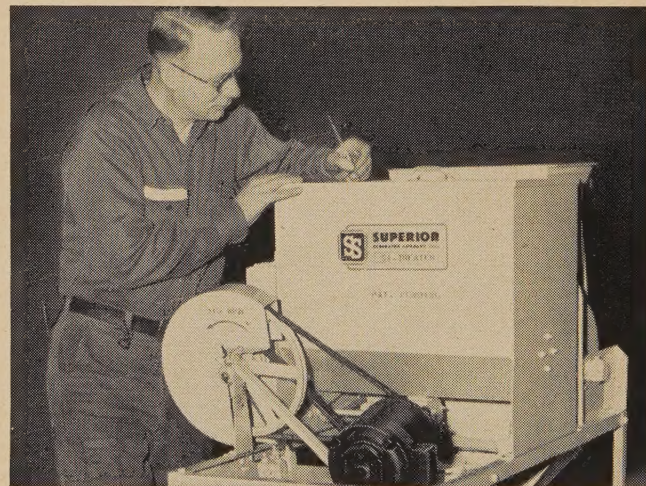
IT DISPENSES SEED by *volume* instead of by weight—a completely new principle in treater design. Lighter, lower-grade seeds get the same full treatment as heavier, high-grade seeds. Above, Superior Salesman Laurence Boatz demonstrates uniform results obtained with first model of this new machine to visiting elevator managers T. J. Sabalik, R. J. Lawson, M. C. Adams and D. R. Kruse.



UP TO 400 BUSHELS of seed per hour are given a uniform coating of treating solution. Foolproof method of dispensing seed by *volume* eliminates under treating of lower-grade seeds which need treatment most. Treater automatically measures and mixes treatment and seed in correct proportions, shuts itself off when intake level falls below point where proper treating ratio is maintained.




NEW ROTOR DISPENSER eliminates *cups and pumps*. All-metal construction and non-corrosive materials assure long, troublefree operation. No need to drain treater tank every night... solution can be left in tank up to 48 hours without harm. Machine is completely automatic, needs little attention. Here Superior Salesman Boatz is explaining the action of the new Rotor Dispenser to elevator manager T. J. Sabalik.

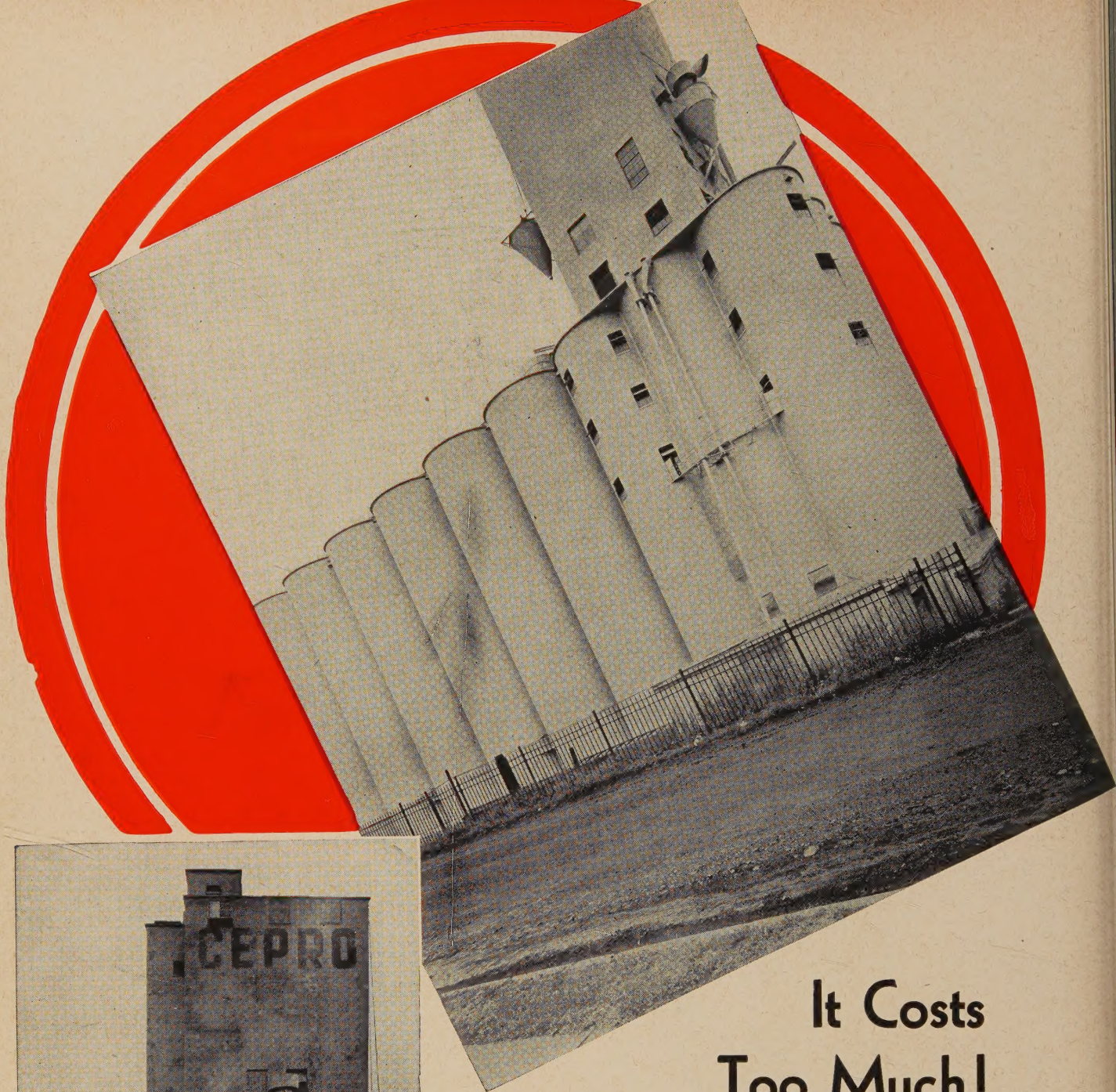


FIRST PRODUCTION MODEL of the Superior Model "S" Treater is readied for shipment. 21 years of producing the finest quality machines for precision cleaning, grading, scalping, aspirating and treating of grains and seeds—that's the kind of experience behind this new treater. Every Superior machine is designed and adjusted for peak performance, and you don't pay a cent until you're satisfied with the job it does for you!

SEE SUPERIOR FIRST

*For scientifically
designed machines to fit
your individual needs*

SUPERIOR
SEPARATOR  **COMPANY**
Hopkins Minnesota



It Costs Too Much!

YES, That's Right!! . . . It Costs Far Too Dearly To Permit Your Plant Restoration Work To Be Delayed Even a Single Season . . . Those With Costly Past Experience Know That The Rate Of Deterioration **ZOOMS** Upwards With The Passing Of Each Successive Year . . . Hence The Cost Of An Intelligent Periodic Building Maintenance Program Quickly And Profitably Liquidates Itself **IN EVERY WAY!**

YOU, Too, Will Find That Protecting Your Investment Is Especially Wise, Particularly When You Can Depend So Completely Upon . . .



Every Day The Elements Are Gnawing Away at Your Properties, Eating Up and Tearing Down Your "House Of Cards." Why Not Protect Yourself As Best You Can By Consulting With . . .

John D. Bolton & Co.

Gunite Contractors

910 Custer Avenue

Evanston, Illinois